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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/752,112	12/29/2000	Robert J. Duncan	061473 0270171	8220
7590 01/11/2005 STEUNBING MCGUINNESS &MANARAS LLP			EXAMINER	
			NGUYEN	NGUYEN, VAN H
125 NAGOG PARK ACTON, MA 01720		ART UNIT	PAPER NUMBER	
,			2126	

DATE MAILED: 01/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/752,112	DUNCAN ET AL.				
Office Action Summary	Examiner	Art Unit				
	VAN H NGUYEN	2126				
The MAILING DATE of this communication app Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>07 O</u>	<u>ctober 2004</u> .					
2a) ☐ This action is FINAL . 2b) ☑ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-20</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	,					
6)⊠ Claim(s) <u>1-20</u> is/are rejected.						
7) Claim(s) is/are objected to.		. ¹ -2				
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine	r.					
10) The drawing(s) filed on is/are: a) acc	epted or b) objected to by the I	Examiner.				
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	∍,37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correct						
11) ☐ The oath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a))-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
 Certified copies of the priority document 	s have been received.					
2. Certified copies of the priority document	• •					
3. Copies of the certified copies of the prior	· ·	ed in this National Stage				
application from the International Bureau	' ''	, , • 				
* See the attached detailed Office action for a list	or the certified copies not receive	·a.				
Attachmont(a)		·				
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO_413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P	Patent Application (PTO-152)				

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DETAILED ACTION

- This Office Action is in response to the request for continued examination filed October
 2004.
- 2. Claims 1-20 are currently presented in this application. Claims 1 and 11 are independent claims.

Continued Examination Under 37 CFR 1.114

3. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on July 19, 2004 has been entered.

Double Patenting

4. Obviousness-type double patenting rejection

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See In re Goodman, 11 F.3d

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1046, 29 USPQ2d 2010 (Fed. CIT. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re van Ornurn, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Uogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington,418 F.2d 528, 163 USPQ 644 (CCPA 1969).

- 5. A timely filed terminal disclaimer in compliance with 37 C.F.R. '1.321(b) would overcome an actual or provisional rejection on this ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 C.F.R. '1.78(d).
- 6. Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).
- 7. Claims 1-20 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-12 of application 09/753,080 filed December 29, 2000.
- 8. Although the conflicting claims are not identical, they are not patentably distinct from each other because the instant application claims a method for classifying a remote procedure call while the copending application claims a nearly identical method for classifying a remote method invocation. RMI is Java's remote procedure call mechanism.
- 9. This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

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Claim Rejections - 35 USC § 103

- 10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 11. Claims 1-6, 8-16, and 18-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Moore et al.** (U.S. 6, 408,342) in view of **Pettus** (U.S. 6, 223,217).

12. **As to claim 1**:

- A. Moore teaches the invention substantially as claimed including a method for classifying a remote procedure call (e.g., the RPC_Client 311; col.10, lines 40-41 and fig.5) that initiates connections to a remote server (e.g., the RPC_Server 315; col.10, lines 40-41 and fig.5) using a client (e.g., Client 301; fig.5) and underlying remote procedure call transport code (e.g., the apply () function of the RPC_Transport 305; col.10, lines 36-38), the method comprising:
 - (i) detecting when a connection carrying high value data for the remote procedure call is created (e.g., binding an RPC_Transport305 to the communication framework 257...creating the binding dynamically when the application 251 is executed; col. 8, lines 30-36 and 53-55);

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(ii) using a side channel to communicate flow information associated with the detected connection to a classifying router (e.g., the RPC_Client 311 established a protocol-specific binding to the RPC_Server 315...the identifier for the target object...the communication channel; col. 10, lines 40-63 and col.13, lines 11-27); the flow information including a port number associated with the communication (e.g., this simple RPC_Transport 305 use...the port number of the remote TCP/IP endpoints; col.58, lines 1-6 and Table A-16);

- (iii) incorporating the flow information into a differentiated services classification subsystem of the classifying router (e.g., the apply () call may receive a Callinfo argument...that is a collection of Quality of Service (QoS) parameters... In initiating a call, the Stub 303 may put in a request for a particular QoS requirement... the protocol with the matching the Quality of Service required by the Stub 303 is selected; col.19, lines 15-46).
- B. Moore does teach incorporating the flow information into a differentiated services classification subsystem of the classifying router. Moore, however, does not specifically teach associating a quality service level to the detected connection in accordance with the flow information.
- C. Pettus teaches associating a quality service level to the detected connection in accordance with the flow information (e.g., Specifically, the RPC objects

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comprise a "caller" object which, once instantiated, accepts service requests from client objects; see the abstract).

D. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Pettus and Moore because Pettus' teaching would have provided the capability for efficiently implementing remote procedure call mechanism in client-server systems of distributed service networks so that service requests generated by a client object can be satisfied by a server object.

13. **As to claim 2:**

Moore teaches providing an API to calling applications; detecting when applications call the API (col.7, line 63-col.8, line 8); and executing a remote procedure routine based on a call by an application (col.11, lines 51-56).

14. **As to claim 3**:

Moore teaches accessing a remote procedure call API (e.g., in creating a remote procedure call, the client 301, using a defined applications program interface...execute in the first process 101a; col.8, lines 53-56); and the API provided to calling applications includes functionality duplicative of remote procedure call API functionality (col.8, line 56-col.9, line 5).

15. **As to claim 4:**

Moore teaches accessing a remote procedure call API (e.g., in creating a remote procedure call, the client 301, using a defined applications program interface...execute in the first process 101a; col.8, lines 53-56); and the API provided to calling applications

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presents an interface duplicative of the remote procedure call API to calling applications (see fig.3 and the associated text).

16. **As to claim 5:**

Moore teaches obtaining flow information from an application call to the API (col.7, line 63-col.8, line 8; and providing the flow information to the classifying router via the side channel (col.10, lines 54-65; and col. 13, lines 11-27).

17. **As to claim 6:**

Moore teaches Media Access Control and Internet Protocol addresses (e.g., location addresses; col.17, lines 22-35) and MAC and IP port numbers (e.g., port number; col.17, lines 22-35), and TCP protocol type for the connection (e.g., TCP/IP connection; col.7, lines 12-19 and col.22, lines 1-11).

18. **As to claim 8**:

It includes the same limitations as claim 6 above, and is similarly rejected under the same rationale.

19. **As to claim 9:**

Moore teaches using the flow information to determine a differentiated services classification for the connection (col.19 lines 15-24); and marking traffic delivered to the connection by the classifying router based on the classification (col.19 line 30-46).

20. **As to claim 10:**

Moore teaches detecting the identity of the client making the remote procedure call, the flow information further containing this detected identity (col.8, lines 59-62 and col.9, lines 34-41).

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21. As to claims 11-16 and 18-20:

Note the rejection of claims 1-6 and 8-10 above. Claims 11-16 and 18-20 are the same as claims 1-6 and 8-10, except claims 11-16 and 18-20 are apparatus claims and claims 1-6 and 8-10 are method claims.

22. Claims 7 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moore in view of in view of Pettus as applied to claims 1 and 11 above and further in view of Riddle et al. (U.S.6,412,000 B1). Riddle was cited by Examiner in the previous Office Action.

23. **As to claim 7:**

- A. The combination of Moore and Pettus does not explicitly teach a *Common Gateway Interface* script.
- B. Riddle teaches a CGI script (e.g., A Common Gateway Interface (CGI) script col.6, lines 43-62).
- C. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine the teachings of Riddle and Moore as modified by Pettus because Riddle's teaching would have provided the capability for enabling information from user clients to be acted upon by a web server.

24. As to claim 17:

Note the discussion of claim 7 above for rejection.

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Response to Arguments

25. Applicant's arguments with respect to claims 1-20 have been fully considered, but are deemed to be moot in view of the new grounds of rejection.

Conclusion

- 26. Any inquiry concerning this communication or earlier communications from the examiner should be directed to VAN H. NGUYEN whose telephone number is (571)
 272-3765. The examiner can normally be reached on Monday-Thursday from 8:30AM 6:00PM. The examiner can also be reached on alternative Friday.
- 27. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Meng-Ai An can be reached on (571) 272-3756.
- 28. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.
- 29. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

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have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

Any response to this action should be mailed to:

Commissioner for patents P O Box 1450 Alexandria, VA 22313-1450

Van H. Nguyen

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